# Russwin N Class (Pre-System 70)

**MACS:** 7

**Increment:** .015"

**Progression:** Two Step

**E.P.D.** Varies

**Included Angle:** 90°

**Root Cut:** .053"

| Key Origination | |
|---|---|
| Blackhawk | N/A |
| CodeMax | Varies |
| HPC Blitz | C41 |
| HPC Punch | N/A |
| ITL | 380 |

| Root Depths | |
|---|---|
| 0 | .328" |
| 1 | .313" |
| 2 | .298" |
| 3 | .283" |
| 4 | .268" |
| 5 | .253" |
| 6 | .238" |
| 7 | .223" |
| 8 | .208" |
| 9 | .193" |
| 10 | .178" |

| Spacing | |
|---|---|
| 1 | .250" |
| 2 | .406" |
| 3 | .562" |
| 4 | .718" |
| 5 | .874" |
| 6 | 1.030" |
| 7 | 1.186" |

**T.F.C:** .250"

**B.C.C:** .156"

| Notes |
|---|
| 1) Read and cut bow-to-tip |
| 2) .509" diameter plugs have EPD of .499", .552" are .541" |
| 3) For CodeMax, use DSD #56 for IC, DSD #3056 for Non-IC. |
| 4) Use .320" top pin for PL5000 padlock / to block master ring. |
| 5) 10 cut used on some constructions master keys. |

### .509" Diameter

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Bottom Pins | .171" | .186" | .201" | .217" | .231" | .245" | .260" | .276" | .291" | .307" |
| Master Pins | | | .030" | .045" | .060" | .075" | .090" | .105" | .120" | .135" |
| IC Top Pins | .192" | .177" | .163" | .149" | .133" | .118" | .103" | .087" | .072" | .058" |

* Standard top pin length is .171".

** Use .247" top pin for non-control chambers.

| Build-Up Pins | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | .028" | .042" | .058" | .072" | .087" | .103" | .118" | .133" | .149" | .163" |
| | **+1** | **+2** | **+3** | **+4** | **+5** | **+6** | **+7** | **+8** | **+9** | |
| | .177" | .192" | .208" | .222" | .238" | .253" | .268" | .282" | .298" | |

### .552" Diameter

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Bottom Pins | .213" | .228" | .245" | .260" | .273" | .288" | .305" | .320" | .334" | .349" |
| Master Pins | | | .030" | .045" | .060" | .075" | .090" | .105" | .120" | .135" |

* Standard top pin length is .171".

| Build-Up Pins | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | .037" | .051" | .066" | .082" | .098" | .112" | .126" | .142" | | |
| | **+1** | **+2** | **+3** | **+4** | **+5** | **+6** | **+7** | **+8** | **+9** | |
| | .156" | .171" | .187" | .202" | .218" | .232" | .247" | .261" | .277" | |

# Notes: